

Literature Search in Technology and Bionics

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Resources - overview

- Library catalogue
- DigiBib
- Electronic Journals Library (EZB)

- Academic Search Engines
- Academic Databases
- Search Portals

Resources - Library Catalogue

Search My list Account / Renewal

Basic search **Advanced search**

Language [german](#) | [english](#)

Search request

Basic search

and Author [Index](#)

and Title [Index](#)

and Subject heading [Index](#)

Limit search Search preferences

Current branch Search in branch

Publication type Language

Year of publication from Year of publication to

- Accessible
 - Selected literature
-
- Only the library's holdings
 - No articles

Resources - Library Catalogue

Title ▾ Mergers and acquisitions in Germany

Beinert, D.: Mergers and acquisitions in Germany.
München: Beck, 2009

~~Title ▾ Labour Reforms in India~~

Jha, S. (2014): Labour Reforms in India: Issues & Challenges. Journal Of Management & Public Policy, 5(2), p45-50.

Title ▾ Journal Of Management & Public Policy

External access to e-books

<https://www.hochschule-rhein-waal.de/en/university/facilities-and-initiatives/library/search/e-books>


Digitale Bibliothek der Hochschule Rhein-Waal

**Bitte loggen Sie sich für den Zugriff auf die digitalen Medien mit Ihren Hochschul-Benutzerdaten ein.
To access the digital library please login with your university-account.**

Der Zugriff auf dieses Angebot ist nur für Mitarbeiter und Studierende der Hochschule Rhein-Waal möglich.
Externe Bibliothekskunden erhalten über eine Anmeldung in der Bibliothek die Berechtigung, innerhalb des Campus unsere lizenzierten Datenbanken zu nutzen.

Benutzername / username:	<input type="text"/>	Login
Passwort / password:	<input type="password"/>	

Resources – Digitale Bibliothek (DigiBib)

 **DigiBib**

[Search](#) [Additional E-Media](#) [Inter-Library Loan](#) [Settings](#) [Info / Ask](#)

Search > Database Selections > Search Mask "All Databases"

DATABASE SELECTIONS

ALL DATABASES

Library Catalogues

Subject Databases

Full Text Databases

Previous Searches (Search History)

My List [0]

1. Choose database(s)

[all | none]

- ☐ Kleve Library Catalogues
- ☐ Regional Library Catalogues (NRW)
- ☐ Regional Library Catalogues (Germany)
- ☐ International Library Catalogues
- ☐ Library Catalogues with Subject Focus
- ☐ Library and Information Science Databases
- ☐ Electrical Engineering and Computer Science Databases
- ☐ Medical Databases
- ☐ Science Databases
- ☐ Technology Databases
- ☒ Full Text Databases
 - ☒ BASE - Bielefeld Academic Search Engine
 - ☒ ePublications (Coop. Thesis Server, UAS Cologne)
 - ☒ Kaiserslautern University E-Docs (KLUEDO)
 - ☒ HighWire Press
 - ☒ edoc-server (Humboldt University, Berlin)
 - ☒ Bochum University: E-Theses
 - ☒ Focus Online
- ☐ Economics and Social Science Databases
- ☐ Periodical Catalogues

2. Enter search term(s)

[Clear input fields]

Search:

[More search fields](#)

- Holdings of many libraries
- inter-library loan

- No articles

Resources – Electronic Journals Library (EZB)



– The full texts of the journals are

- | | | |
|-------------------------------------|---|---|
| <input checked="" type="checkbox"/> | <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> | freely available |
| <input checked="" type="checkbox"/> | <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> | free for the staff and students of Rhine-Waal University of Applied Sciences (from within the Campus network) |
| | <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> | in part accessible |
| <input checked="" type="checkbox"/> | <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> | not accessible |

- Overview about e-journals
 - Check how to access a certain e-journals
- No articles

Resources - Scientific Search Engines

The image shows two overlapping screenshots. The top one is a Google Scholar search for 'information literacy', showing approximately 2,300,000 results. It lists several documents, including 'The seven faces of information literacy' and 'Information literacy unplugged: teaching information literacy without technology'. The bottom screenshot shows the BASE (Bielefeld Academic Search Engine) interface. It has a search bar with 'information literacy' entered, and a 'Find' button. Below the search bar, there are sections for 'Your search', 'Linguistics tools', and 'Statistics'. The 'Hit List' section displays the first result: '1. Information Literacy Competency Standards for Higher Education' by the American Library Association (ALA). The result includes details like title, author, description, year of publication (2000), document type, language, subjects, URL, and content provider. To the right of the hit list are options to 'Sort Your Results' (currently set to Relevance) and 'Refine Search Result' with various filters like Author, Subject, Dewey Decimal Classification, etc.

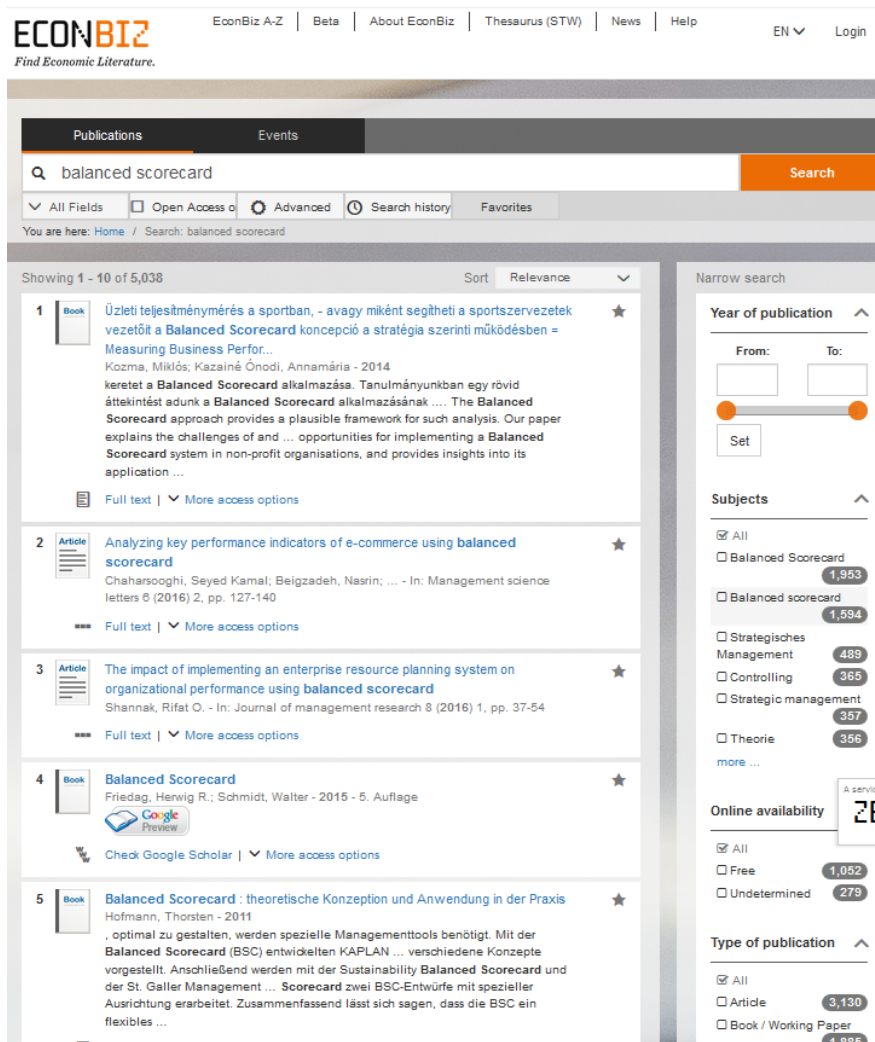
- Scholarly documents, including articles
- Many results but hardly good filters
- Not subject specific

Resources – Academic Databases





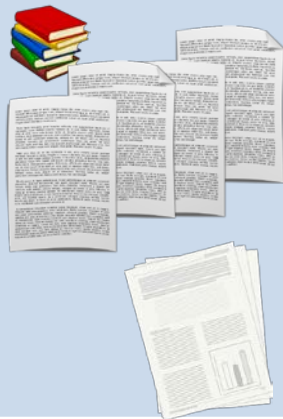
The screenshot displays a search interface for a university database. At the top, there are search input fields and buttons labeled 'Suche' and 'Löschen'. Below these, there are sections for 'Suchoptionen' (Search Options) and 'Ergebnisse eingrenzen' (Refine Results). The 'Suchoptionen' section includes radio buttons for 'Suchmodi und Erweiterungen' (Search Modes and Extensions) and checkboxes for 'Verwandte Wörter verwenden' (Use Related Words) and 'Auch innerhalb des Volltextartikels suchen' (Also search within the full-text article). The 'Ergebnisse eingrenzen' section includes checkboxes for 'Volltext' (Full Text) and 'Wissenschaftliche (von Experten geprüfte) Zeitschriften' (Scientific (expert-reviewed) journals). There are also sections for 'Referenzen vorhanden' (References available) and 'Erscheinungsdatum' (Publication date) with corresponding input fields and checkboxes.

- Subject specific
 - Lots of search options
 - Search for articles
 - (Licensed by the university)
- Subject might not fit exactly

Resources – Search Portals



- Simultaneous search in several databases
- less search options

	DigiBib (Interlibrary loan)	Library catalogue	EZB	Scientific search engine	Academic databases
Media	 <p>*print only</p>		 <p>*e-only</p>		
Access clear?	✓	✓	✓	?	?



Search methods - overview

- Collect search terms
- Truncation : Psychol*
- Phrase search: „Social media“
- AND, OR, NOT
- Subject terms, thesaurus

Collect alternative search terms

Term	Broader Term	Narrower Term	Synonym	Related Term
notebook	computer	netbook	laptop	tablet
mobile phone	telephone	smartphone	mobile	mobile reception
...

Identify important aspects

Topic:

„Strategies and opportunities for energy optimization
in recycling water“

- water supply
- downstream processing
- municipal wastewater
- water quality
- ...

- energy consumption
- energy recovery
- energy demand
- energy saving
- ...

Truncation



- child* → child, children, childhood...
- chil* → child, chilly, Chile...
- *biology → biology, neurobiology, microbiology ...
- Me*er → Meyer, Meier, Meblablaer...

Phrase Search

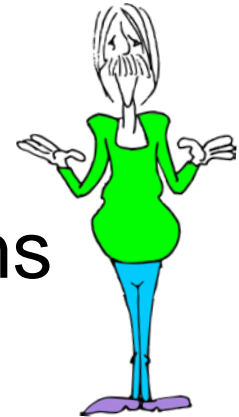
„Climate change mitigation“

only finds documents, that contain these words
in **exactly that order and spelling**



Boolean Operators

- **computer AND keyboard**
Documents contain both terms
- **notebook OR laptop**
Documents contain at least one of the terms
- **computer NOT hardware**
Documents contain the term *computer*
but NOT the term *hardware*



Complex search queries

(fracture OR damage OR crack)

AND

(fatigue OR stress)

... finds books like:

→ Examples of fatigue crack growth

→ Fatigue damage mechanics

Controlled vocabulary

- Subject Terms
 - Describe the content
 - Help to find **thematically matching** documents
 - Help to exclude the wrong documents
- Thesaurus
 - Only in some databases
 - Lists the controlled subject terms
 - Subject terms are connected with related terms

Business Source Premier

- Academic Database
- Focused on economics
- Primarily English documents
- Reference, full text and factual database
 - Full text coverage for more than 2.300 journals
 - Company Profiles
 - Industry and Market Research Reports
 - Searchable Cited References

[\(Weblink\)](#)

TEMA

- Academic database
- TEMA = Technology and Management
- > 5 000 000 records
- German and English abstracts and search terms
- Producer: WTI-Frankfurt
- [Weblink](#)

Further databases

Licensed databases:

<https://www.hochschule-rhein-waal.de/en/university/facilities-and-initiatives/library/search/databases>

Further resources/websites:

https://www.digibib.net/jumpto?D_SERVICE=TEMP_LATE&D_SUBSERVICE=ERESOURCES&LOCATION=1383

Access to licensed databases

- Login required for external access
- user name and password you use for IT services

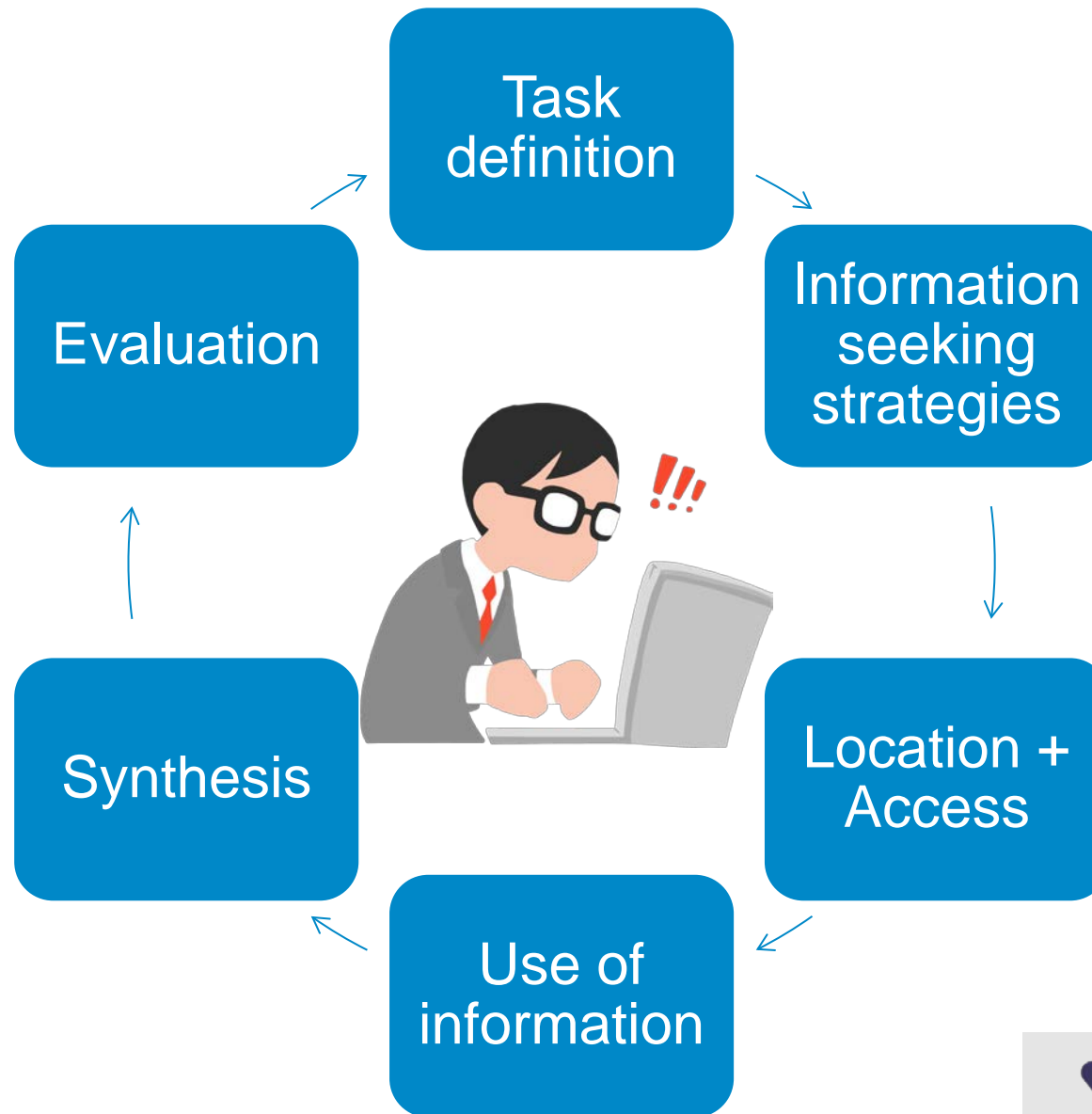
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Process model



Determining Scholarly Sources

The review criteria

- R is for Relevance
- E is for Expertise of Author
- V is for Viewpoint of Author/Organisation
- I is for Intended Audience
- E is for Evidence
- W is for When Published

Video tutorials

If you need further explanations on search methods and other topics related to information literacy, have a look at this compilation of short video tutorials:

<https://www.hochschule-rhein-waal.de/en/university/facilities-and-initiatives/library/information-and-advice/tutorials>

Contact

If you have any questions, problems or suggestions, please do not hesitate to contact us.

Rhine-Waal University Library

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Mail: bibliothek@hochschule-rhein-waal.de

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